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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/533,008	04/28/2005	Shuji Tabuchi	10873.1587USWO	1648
53148 HAMRE SCH	7590 02/08/2008 UMANN, MUELLER & L	ARSON P.C.	EXAMINER KAYRISH, MATTHEW ART UNIT PAPER NU 2627 MAIL DATE DELIVERY	IINER
P.O. BOX 2902-0902			KAYRISH, MATTHEW	
MINNEAPOL	IS, MN 55402		ART UNIT	PAPER NUMBER
•			2627	
		•	MAIL DATE	DELIVERY MODE
			02/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)			
	10/533,008	TABUCHI, SHUJI			
Office Action Summary	Examiner	Art Unit			
	Matthew G. Kayrish	2627			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>06 Not</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.	·			
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)		·			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate			

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DETAILED ACTION

Response to Arguments

 Applicant's arguments filed 11/6/2007 have been fully considered but they are not persuasive.

Regarding the argument that Khuu does not disclose the configuration that accepts a cartridge with a loose fit, the examiner respectfully disagrees. Khuu states that the side walls fittingly receive the side edges of the cartridge. Regarding this statement, the examiner believes that fittingly does not refer to a tight fit, but rather a fit that is loose enough to allow the cartridge to be inserted into base. In this sense, the cartridge is wide enough to be stopped by the stoppers [78] but is narrow enough to be loosely pressed towards the stoppers. Therefore, the cartridge is still inserted with a loose fit.

In response to applicant's argument that the stops [78] stop the insertion of the cartridge, and the ribs of the present invention, the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985). Specifically, the rib portions of the present application are inserted in the groove portions of the cartridge to guide the cartridge properly. Khuu discloses exactly this when the stopper portions are inserted along the indents [72], as disclosed in columns 5 & 6, lines 60-67 & 1-2. Therefore, the ribs of the present application are still rejected by the stoppers [78] of Khuu.

Regarding the argument that Khuu does not disclose where the second rib is shorter than the first rib; both stoppers have a taller portion and a shorter portion. On the first stopper, the stopper portion [78] is taller than the longer guiding portion; therefore, a portion of the second rib/stopper is still shorter than a portion of the first rib/stopper.

For the reasons above, claim 1 is still met by Khuu. Claims 3 and 5-7 have been amended. Claims 1-10 remain rejected.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Khuu (US Patent Number 6081407).

Regarding claim 1, Khuu discloses:

A case comprising a bottom plate in a substantially rectangular shape (figure 5A, item 26), and a first side plate and a second side plate (figure 5A, items 76) rising respectively from a pair of border lines forming the bottom plate and facing each other (figure 5B, plates face each other), either one edge side orthogonal to the pair of border

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lines being an entrance (figure 5A, bottom of 26 is an entrance), an insertion being inserted toward the other edge side to be housed in the case (figure 6A);

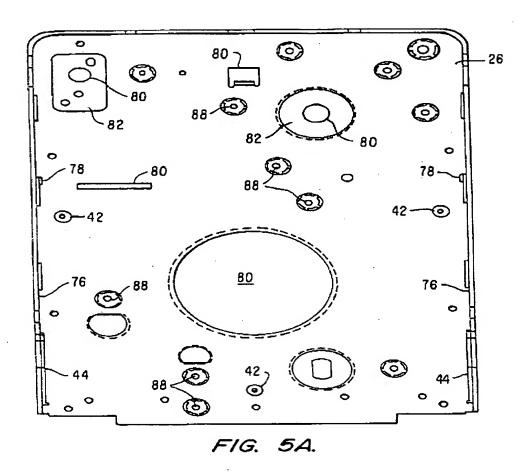
Wherein, on an inner surface of the first side plate where the first side plate and the second side plate face each other, a first rib having a top face parallel to the inner surface of the first side plate is provided (figure 5A, item 78), with a height D1 between the inner surface of the first side plate and the top face of the first rib (figure 5A);

On an inner surface of the second side plate where the second side plate and the first side plate face each other, a second rib having a top face parallel to the inner surface of the second side plate is provided so as to face the first rib (figure 5A below), with a height D2 shorter than the height D1;

On the inner surface of the first side plate on the entrance side with respect to the first rib, a first protrusion having a top face parallel to the inner surface of the first side plate is provided with a height D3 shorter than the height D1 (figure 5A below); and

Both a spatial distance D4 between the top face of the second rib and the inner surface of the first side plate, and a spatial distance D5 between the top face of the first protrusion and the inner surface of the second side plate (figure 5A below) allow a width D6 of the insertion in a facing direction of the first side plate and the second side plate to be inserted with a loose fit (figure 7B, cartridge is loosely fit).

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Regarding claim 5, Khuu discloses the features of base claim 1, as stated in the 102 rejection above, and further disclosing:

A third side plate rising from the other edge facing the entrance via the bottom plate, with the same height as that of the first side plate and the second side plate (figure 5A, item 26 has a back wall).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 2-4 and 6-10 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Khuu (US Patent Number 6081407), in view of Inoue (US Patent

Number 6590858).

Regarding claim 2, Khuu discloses the features of base claim 1, as stated in the

102 rejection above, but fails to specifically disclose:

Wherein on the inner surface of the first side plate on the entrance side with

respect to the first protrusion (figure 22, item 72), a second protrusion having a top face

parallel to the inner surface of the first side plate is provided (figure 22, item 73), with

the height D3, and on the inner surface of the first side plate between the first protrusion

and the second protrusion, a rack is provided with a height D7 equal to or shorter than

the height D3 (figure 22, item 71).

Therefore, it would have been obvious to one of ordinary skill in the art at the

time the invention was made to provide the case of Khuu with a rack, as taught by

Inoue, because this will open and close the shutter of the cartridge upon insertion and

ejection, as stated in column 3, lines 13-27.

Regarding claim 3, Khuu discloses the features of base claim 1, as stated in the

102 rejection above, and further disclosing:

The cartridge also includes a first partial stepped groove formed on a part of the

first side wall, having a step in a direction toward the second side wall substantially at a

center of the gap between the upper half and the lower half from an engagement line (figure 3, item 73) at which the first side wall is engaged with the front wall to the back wall, and a second partial stepped groove having a step in a direction toward the first side wall, formed on the second side wall at a position facing the first partial stepped groove (figure 3, item 72 is on both sides facing each other and approximately centrally located); and

The first protrusion and the first rib slide to contact the first partial stepped groove, and the second rib slides to contact the second partial stepped groove, whereby the cartridge is inserted into the case (columns 5 & 6, lines 60-67 & 1-2).

Khuu fails to specifically disclose:

Wherein the insertion is a cartridge including an upper half and a lower half that face each other with a gap for housing a disk-shaped information medium placed therebetween, an opening window portion for exposing a part of the disk-shaped information medium through the upper half and/or the lower half, a shutter for opening and closing the opening window portion, a front wall engaged with the shutter to connect the upper half to the lower half, a first side wall and a second side wall respectively being connected to the upper half and the lower half and to the front wall, and a back wall facing the front wall;

Inoue discloses:

Wherein the insertion is a cartridge (figure 17) including an upper half (figure 17, item 13) and a lower half (figure 17, item 85) that face each other with a gap for housing a disk-shaped information medium placed therebetween (figure 15, item 11 is housed

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by cartridge), an opening window portion for exposing a part of the disk-shaped information medium through the upper half and/or the lower half (figure 15, item 87), a shutter for opening and closing the opening window portion (figure 15, item 18), a front wall engaged with the shutter to connect the upper half to the lower half, a first side wall and a second side wall respectively being connected to the upper half and the lower half and to the front wall, and a back wall facing the front wall (figure 16, upper half and lower half are connected with four sides, a top and a bottom);

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the cartridge of Khuu with a top and a bottom half, as taught by Inoue, because this will house the cartridge and allow for opening of the shutter upon insertion, as noted in column 3, lines 13-27.

Regarding claim 4, Khuu and Inoue disclose the features of base claim 3, as stated in the 103 rejection above, and Inoue further disclosing:

Wherein each front edge of the upper half and the lower half, engaged with the front wall, forms an arc-shape (figure 16, front edge forms an arc), and the shutter includes an opening and closing engagement member (figure 22, item 84) for opening and closing the opening window portion by rotating along the arc-shape (sequence of figures 22-26), the opening and closing engagement member is provided in a full-length stepped groove having a step on the second side wall over an entire length of the first side wall substantially at a center between the upper half and the lower half on the first side wall (figure 17), has a first hole and a second hole (figure 22, items 44a & 44b) with

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which the second protrusion is engaged, and a gear portion (figure 22, item 41a) engaged with the rack between the first hole and the second hole (figure 22).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the cartridge of Khuu with a shutter opening mechanism, as taught by Inoue, because this will open the shutter as clearly displayed in figures 22-26.

Regarding claim 6, Khuu and Inoue discloses the features in common with those previously presented in claim 3, as stated in the 103 rejection above, and Khuu further disclosing:

Wherein the first partial stepped groove having a first bottom portion with a dent D8, and the second partial stepped groove having a second bottom portion with a dent D8 (figure 3, grooves [72] have a depth [D8]), and when the insertion is housed, a distance D9 between the first bottom portion and the second bottom portion is fit between the top face of the first rib and the top face of the second rib (figure 3, width of cartridge at grooves [72] is equivalent to D9).

Regarding claim 7, Khuu discloses the features of base claim 1, as stated in the 102 rejection above, but fails to specifically disclose:

A cover using, as a rotation axis, either edge of the first side plate parallel to the bottom plate, either edge of the second side plate parallel to the bottom plate, an edge of the bottom plate forming the entrance, an edge facing the edge of the bottom plate forming the entrance via the bottom plate, or either edge of the third side plate parallel to the bottom plate.

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Inoue discloses:

A cover using, as a rotation axis, either edge of the first side plate parallel to the bottom plate (figures 22-26, the side wall serves for the axis of rotation of the shutter), either edge of the second side plate parallel to the bottom plate, an edge of the bottom plate forming the entrance, an edge facing the edge of the bottom plate forming the entrance via the bottom plate, or either edge of the third side plate parallel to the bottom plate.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the axis of rotation of the shutter on a side wall, as taught by Inoue, because the shutter will open via a rack on the sidewall to rotate it, thereby providing an axis to rotate, as displayed in figures 22-26.

Regarding claims 8 and 9, Khuu and Inoue disclose the features in common with those previously presented in claim 3, as stated in the 103 rejection above, and further contains method limitations that are similar to or inherent from those limitations previously presented in claims 3 and 4, as stated in the 103 rejections above, therefore, claim 8 is met on the same basis.

Regarding claim 10, Khuu and Inoue disclose the features of base claim 9, as stated in the 103 rejection above, and further discloses the features in common with those previously presented in claim 4, and Inoue further disclosing:

A rotation suppressing portion for suppressing the opening operation of the shutter due to rotation by being engaged with the first hole (figure 15, item 32), and an engagement removal portion for removing the engagement between the rotation

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suppressing portion and the first hole (figure 17, item 37), and the rack contacts the engagement removal member to remove the engagement between the rotation suppressing portion and the first hole between the first step and the second step (column 18, lines 22-31).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a rotation suppression releasing member on the rack, as taught by Inoue, because the suppression of the rotating member can be released upon insertion, as described in column 18, lines 22-31.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew G. Kayrish whose telephone number is 571-272-4220. The examiner can normally be reached on 8am - 5pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrea Wellington can be reached on 571-272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

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Matthew G. Kayrish

1/14/2008

MGK

Brian E. Miller/Brian E. Miller/
Primary Patent Examiner AU2627